

CATALYTIC COMPOSITION FOR THE AROMATIZATION OF HYDROCARBONS

ABSTRACT

The present invention regards a catalytic
5 composition comprising gallium, at least one
element chosen in the group of the lanthanides, and
a zeolite belonging to the MFI, MEL or MFI/MEL
families, the crystal lattice of which is made up
of silicon oxide and at least one metal oxide
10 chosen from among aluminium oxide, boron oxide and
gallium oxide. Preferably, in the catalytic
compositions of the present invention a zeolite is
used belonging to the MFI family characterized by
crystallites which for at least 90% have diameters
15 smaller than 500 Å and which can form agglomerates
of submicron dimensions characterized by possessing
at least 30% of the extrazeolitic porosity in the
region of the mesopores.

The catalytic compositions of the present invention
20 can, in addition, contain rhenium.

These catalytic compositions are useful in
processes of aromatization of hydrocarbons
containing from 3 to 6 carbon atoms, preferably,
hydrocarbon mixtures containing olefins.